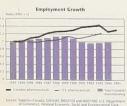
Publications

HIGHLIGHTS

The pharmaceutical industry is an important contributor to the Canadian economy and an integral part of Canada's health care system . . .

- The pharmaceutical work force is highly the industry was \$48,000 a year in 1994, which
- The human resources available to the industry are internationally competitive. Skill levels are



■ The industry accounts for 1 percent of manufacturing employment and 10 percent of private sector research and development (R&D).

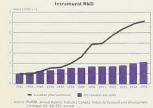
MAJOR TRENDS

- The pharmaceutical industry is going through a its growth. This has led to constraints on drug
- On the supply side, enhanced productivity is drugs. Many major multinational companies
- At the same time, companies producing generic drugs have been growing rapidly. This is partly by encouraging consumers to switch to lower-

response to the need for inexpensive, effective medications in less developed countries.

Canadian R&D expenditures by multinational brand-name companies have been increasing at a time when drug manufacturing capacity in Canada has been falling . . .

- The brand-name sector contributes far above the average among Canadian manufacturing industries to R&D funding, dedicating around 12 cents per sales dollar in recent years.
- Manufacturing by generic drug companies also is on a growth track as the key companies adopt internationally oriented strategies embracing both domestic investment for exports and



foreign direct investment. Bio-pharmaceutical R&D is increasingly important in the strategies of both brand-name multinational and generic domestic companies.

Canada's pharmaceutical manufacturers traditionally have not been positioned as exporters . . .

- However, this is beginning to change, especially outs through the North American Free Trade Agreement (NAFTA) and the 1995 implementation of the World Trade Organization (WTO).
- Currently, Canadian subsidiaries of multinational drug producers export less than 10 percent of their Canadian shipments. export 40 percent of their output
- There is a growing deficit in pharmaceutical goods trade, which reached \$1.8 billion in 1995. However, as a proportion of total pharmaceutical trade flows (exports plus imports), the deficit is declining slowly.

Canadian Trade in Pharmaceuticals

Because Canada's domestic market is expected to

the past, generic and some brand-name com-

growth. The U.S. market as well as some of the

developing markets are the focus of attention.

■ The industry's service exports include transfers

economic studies. On the import side, manage-

With respect to capital flows, there is significant

inward foreign direct investment in the brand-

of information technology expertise, the

grow less quickly over the next five years than in

de l'industrie

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Sector Competitiveness Frameworks are major Canadian industry sector, and will be both domestic and international, as well as on the challenges facing industry sectors in Canada. on discussions with major industrial stakeholders,

The objective of the Sector Competitiveness Frameworks series is to seek ways in which government and private industry together can in doing so, generate jobs and growth.

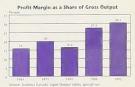
In all, some 28 industrial sectors will be analyzed. http://strategis.ic.gc.ca/scf

Innovation in the industry centres on the discovery and development of new drugs . . .

- The Patented Medicine Prices Review Board \$620 million on R&D. Since the cost of discovering and developing a single new drug is often in excess of \$400 million, it is not drug discoveries.
- Key success factors in promoting R&D include the degree of patent protection available, the R&D tax credit system, the availability of of excellence, direct funding of R&D, and the ability of Canada's multinational subsidiaries to capabilities make it an attractive place to invest.

The global restructuring drive of the multinationals has affected the investment behavior of their subsidiaries in Canada and elsewhere . . .

- Worldwide consolidation of major companies has resulted in the sale or shutdown of some manufacturing capacity in Canada. At the same to the aggregate investment performance of
- The industry has achieved fairly good levels of and, over the next five years, aggregate sales in
- Investment in Canada by multinationals is driven by the allocation of R&D and manufacabout how well Canadian capabilities and opportunities fit into the companies'
- A factor in Canada's favour is the existing of construction and operation of new facilities.



regional/world product mandates by a number

of companies.

- With respect to generics, the decision to invest depends partly on the growth in the domestic are investing in Canada for export while others are making direct foreign investments,
- Key success factors in attracting new investagreements) and the speed of regulatory approval of new products.
- A new federal investment strategy, which seeks to make Canada the NAFTA location of choice

targets the life sciences industry (including pharmaceuticals) as a priority sector.

The industry has a reputation as being clean and environmentally friendly . . .

- Health Canada has the responsibility of the Canadian marketplace are safe for use. unused drugs is becoming an issue. For example, the Province of British Columbia has safe disposal of unused drugs, and the Province of Quebec is moving toward a voluntary code
- The only significant pollution comes from air by some major manufacturing plants. While the amount of packaging typically used is large relative to the unit of product sold, the industry feels that it is difficult to reduce because of the

Another important factor affecting development of the industry is the Canadian Environmental Protection Act (CEPA), which regulates the

THE BOTTOM LINE

The pharmaceutical industry has the potential to make a significant contribution to Canada's economic future . . .

Companies in Canada are in the process of serve only the domestic market. They compete

■ Generic companies have been quite successful They are moving to penetrate established

markets by forging strong alliances and aggressively targeting emerging markets.

Attention: Claude-Andrée Ouimet

